

## Title (en)

Neutral gray-colored infrared and ultraviolet radiation absorbing glass.

## Title (de)

Infrarot und ultraviolette Strahlung absorbierendes, neutral grau gefärbtes Glas.

## Title (fr)

Verre absorbant les rayons infrarouges et ultraviolets coloré en gris neutre.

## Publication

**EP 0565882 A1 19931020 (EN)**

## Application

**EP 93104240 A 19930316**

## Priority

- JP 6374992 A 19920319
- JP 18701592 A 19920714

## Abstract (en)

An infrared and ultraviolet radiation absorbing glass suitable for use in building and vehicle windows, which comprises, on a weight basis, 68-74% of SiO<sub>2</sub>, 0.1-3.0% of Al<sub>2</sub>O<sub>3</sub>, 8-11% of CaO, 2-4.5% of MgO, 11.5-16% of Na<sub>2</sub>O, 0.5-3.0% of K<sub>2</sub>O, 0.1-0.4% of SO<sub>3</sub>, 0.10-0.55% of total iron expressed as Fe<sub>2</sub>O<sub>3</sub>, 0.2-0.6% of CeO<sub>2</sub>, 15-35 ppm of CoO and 2-18 ppm of Se. In the glass the ratio of ferrous iron to ferric iron is in the range from 0.17 to 0.55. The glass has a neutral grayish tint and is well balanced in visible light transmittance, infrared radiation absorption and ultraviolet radiation absorption, and a sheet of the glass can be easily tempered by a conventional method. <IMAGE>

## IPC 1-7

**C03C 3/087**; **C03C 4/02**; **C03C 3/095**; **C03C 4/08**

## IPC 8 full level

**C03C 3/095** (2006.01); **C03C 4/02** (2006.01); **C03C 4/08** (2006.01)

## CPC (source: EP US)

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## Citation (search report)

- [XP] FR 2672587 A1 19920814 - NIPPON SHEET GLASS CO LTD [JP]
- [XP] GB 2252973 A 19920826 - PILKINGTON GLASS LTD [GB]
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- [AD] DATABASE WPIL Week 8143, Derwent Publications Ltd., London, GB; AN 81-78952D & JP-B-56 041 579 (NIPPON SHEET GLASS KK) 29 September 1981
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